

Patent claims

1. A housing for receiving a cable drum of an
5 adjustment device for a motor vehicle which comprises a
peripheral surface with guide means for a tractive
means encircling the cable drum, with

- a bearing point for rotatably mounting a cable
10 drum,

- at least one wall of the housing which encompasses
the cable drum along the peripheral surface thereof
when said cable drum is mounted in the housing, and
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- a securing element which is arranged in the region
of the wall of the housing and which serves to secure a
tractive means, extending along the peripheral surface
of a cable drum to be mounted in the housing,
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characterized in that

the securing element (5) is elastically configured and
may be moved by deformation in the radial direction (r)
25 in relation to the bearing point (2).

2. The housing as claimed in claim 1,
characterized in that the securing element (5)
comprises a stop face (50) which faces the bearing
30 point (2) of the housing.

3. The housing as claimed in claim 1 or 2,
characterized in that the securing element (5) may be
moved outwardly away from the bearing point (2) by
35 elastic deformation in the radial direction (r), in
relation to the bearing point (2).

4. The housing as claimed in any one of the
preceding claims, characterized in that the securing

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element (5) is connected to the wall (3, 4) of the housing via a connecting portion (51).

5. The housing as claimed in claim 4, characterized in that the securing element (5) on a face (52) facing away from the bearing point (2) is spaced apart from an opposing wall portion (45) of the wall (3, 4) of the housing.

6. The housing as claimed in any one of the preceding claims, characterized in that a free space (F) is provided on the face (52) facing away from the bearing point (2) of the securing element (5).

7. The housing as claimed in any one of the preceding claims, characterized in that the securing element (5) is formed integrally on the housing, in particular the wall (3, 4) of the housing.

8. The housing as claimed in any one of the preceding claims, characterized in that on the wall (3, 4) of the housing further securing regions (305) are arranged which project from the wall (3, 4) of the housing in the direction of the bearing point (2).

9. The housing as claimed in claim 8, characterized in that the further securing regions (305) are arranged on the wall (3, 4) of the housing such that none of the further securing regions (305) opposes the securing element (5) in the radial direction (r) in relation to the bearing point (29).

10. The housing as claimed in claim 8 or 9, characterized in that the further securing regions (305) are formed integrally on the wall (3, 4) of the housing.

11. The housing as claimed in any one of the preceding claims, characterized in that the bearing point (2) is formed by a fixed bearing axis, in particular in the form of a bore.

12. The housing as claimed in any one of the preceding claims, characterized in that the bearing point (2) is arranged on a bottom region (10) of the housing.

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13. The housing as claimed in any one of the preceding claims, characterized in that the bearing point (2) is formed integrally on the housing.

10 14. The housing as claimed in any one of the preceding claims, characterized in that the bearing point (2) comprises a positive connection element (21) for positively retaining a cable drum (8) mounted on the bearing point (2).

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15. The housing as claimed in claim 14, characterized in that the positive connection element (21) is formed by a projection projecting radially outwardly from the bearing point (2).

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16. The housing as claimed in claim 14 or 15, characterized in that the positive connection element (21) is configured rigidly.

25 17. The housing as claimed in any one of the preceding claims, characterized in that guide regions (6, 7; 6', 7') are provided on the housing as cable inlets and outlets for a tractive means (S) to be conveyed toward the interior of the housing.

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18. The housing as claimed in claim 17, characterized in that the guide regions (6, 7) are arranged and configured for guiding a tractive means (S) such that the tractive means (S) is pretensioned
35 radially inwardly in the direction (K) of the bearing point (2).

19. The housing as claimed in claim 17 or 18, characterized in that the guide regions (6, 7) define two guide channels, of which one serves as a cable

inlet and the other as a cable outlet and which in relation to the bearing point (2) enclose an angle (α) of less than 180° .

5 20. The housing as claimed in claim 19, characterized in that the angle (α) enclosed by the guide regions (6, 7) is between 120° and 180° , preferably between 140° and 180° .

10 21. The housing as claimed in claim 19 or 20, characterized in that the securing element (5) is arranged in a region (45) of the wall (3, 4) of the housing in which the two guide channels defined by the guide regions (6, 7) converge.

15 22. The housing as claimed in claim 17, characterized in that the guide regions (6', 7') define two guide channels of which one serves as a cable inlet and the other as a cable outlet and which in relation
20 to the bearing point (2) enclose an angle (β) of more than 180° .

23. The housing as claimed in claim 22, characterized in that the angle (β) enclosed by the
25 guide regions (6', 7') is between 180° and 240° , preferably between 180° and 220° .

24. The housing as claimed in claim 22 or 23, characterized in that the securing element (5) is
30 arranged in a region (300) of the wall (3, 4) of the housing, which opposes the region of the wall (3, 4), in which the two guide channels defined by the guide regions (6', 7') converge, substantially in the radial direction (r).

35 25. The housing as claimed in any one of the preceding claims with a cable drum (8) mounted on the bearing point (2) of the housing.

26. The housing as claimed in claim 25, characterized in that the bearing point (2) of the housing is configured as a bearing element which penetrates a bearing aperture (80) of the cable drum
5 (8).

27. The housing as claimed in claim 25 or 26, characterized in that the guide means (86) extending on the outer peripheral surface (85) of the cable drum (8)
10 are configured as guide grooves.

28. The housing as claimed in claim 27, characterized in that the extension (L) of the securing element (5) in the axial direction (a) is greater than
15 the extension (T) of all guide grooves (86) plus the extension of the positive connection element (21) of the bearing point (2) in this direction (a).

29. The housing as claimed in any one of claims 25
20 to 28, characterized in that the securing element (S) in the axial direction (a) completely covers all opposing guide grooves (86) of the cable drum (S).

30. The housing as claimed in any one of claims 25
25 to 29, characterized in that the securing element (5) in the axial direction (a) has a greater extension (L) than the peripheral surface (85) of the cable drum (8).

31. The housing as claimed in any one of claims 25
30 to 30, characterized in that the cable drum (8) is encircled by a tractive means (S).